

IN THE CLAIMS:

Although not amended herein, the claims are presented for the convenience of the Examiner.

1. (PREVIOUSLY PRESENTED) An electric motor comprising:

a stator core having main teeth and auxiliary teeth, each of the main teeth having a straight end and a constant diameter and each of the auxiliary teeth being formed in a slot between adjacent ones of the main teeth; and

coils respectively formed around said main teeth with said auxiliary teeth intervening adjacent ones of said coils.

2. (ORIGINAL) An electric motor according to claim 1, wherein each of said auxiliary teeth has a shape such as to fill a gap between the adjacent ones of said coils.

3. (ORIGINAL) An electric motor according to claim 1, wherein a torque and/or a cogging amount of the electric motor are adjusted by setting of lengths of said auxiliary teeth.

4. (PREVIOUSLY PRESENTED) An electric motor comprising:

a stator core having main teeth and auxiliary teeth, each of the main teeth having a straight end and a constant diameter and each of the auxiliary teeth being formed in a slot between adjacent ones of the main teeth; and

coils respectively formed around said main teeth with said auxiliary teeth intervening adjacent ones of said coils,

wherein a torque and/or a cogging amount of the electric motor are adjusted by setting of lengths of said auxiliary teeth and lengths of said auxiliary teeth are set to be maximum values not greater than lengths of said main teeth and with which the electric motor has a cogging amount within an allowable amount.

5. (PREVIOUSLY PRESENTED) An electric motor comprising:

a stator core having main teeth and auxiliary teeth, each of the main teeth having a straight end and a constant diameter and each of the auxiliary teeth being formed in a slot between adjacent ones of the main teeth; and

coils respectively formed around said main teeth with said auxiliary teeth intervening adjacent ones of said coils,

wherein a torque and/or a cogging amount of the electric motor are adjusted by setting of lengths of said auxiliary teeth and lengths of said auxiliary teeth are set to be values not greater

than lengths of said main teeth and with which the electric motor has a minimum cogging amount.

6. (ORIGINAL) An electric motor according to claim 1, wherein said stator core has a cylindrical shape to constitute a rotary motor.

7. (ORIGINAL) An electric motor according to claim 1, wherein said stator core has a straight shape to constitute a linear motor.

8. (PREVIOUSLY PRESENTED) An electric motor comprising:

a stator core comprising:

    a plurality of first teeth, and

    a second tooth disposed between the first teeth; and

    a plurality of coils around said first teeth,

    wherein a length of said second tooth is less than lengths of the first teeth so that a cogging amount of the electric motor is a minimum amount.

9. (PREVIOUSLY PRESENTED) An electric motor comprising:

a stator core comprising:

    a plurality of first teeth, and

    a second tooth disposed between the first teeth; and

    a plurality of coils around said first teeth,

    wherein a length of said second tooth is less than lengths of said first teeth and corresponds to a minimum cogging amount of the electric motor.